

Ice in Rivers and Opening of Navigation.—The most interesting feature under this head relates to the ice blockade in Lake Huron, which lasted from the 8th to the 15th, at St. Clair Flats, after having been open during the previous two weeks. At Fort Brady, Mich., ice was running in river from 7th to 14th. Navigation opened as follows: Erie canal, on the 8th. Marquette, 6th; heavy floating ice from the 1st to the 6th. The first vessel arrived at Oswego, N. Y., from Lake Michigan on the 11th.

TEMPERATURE OF WATER.

The temperature of the water in rivers and harbors is shown by the table on chart No. II. The highest temperatures are: 79° Savannah; 82° Augusta; 90° Key West. Lowest temperatures: 33° Eastport and Marquette; 36° Escanaba; 38° Duluth; 40° Alpena; 41° Detroit and La Crosse.

Largest Ranges.—27° La Crosse; 24° Grand Haven; 23° Cleveland and Keokuk; 22° Buffalo; 21° Pittsburgh; 20° Duluth and St. Paul.

Smallest Ranges.—3° San Francisco; 4° Eastport; 7° Chicago; 8° St. Paul; 9° Marquette; Portland, Me.

ATMOSPHERIC ELECTRICITY.

Thunder-storms or diffuse lightning are reported: 1st, Mass., Tenn.; 2nd, Col., Dak., Kan., Mo., Tex., Vt.; 3rd, Ind. Ty., La., Miss., Tex., Tenn.; 4th, Dak., Ill., Iowa, Ind. Ty., La., Miss., S. C., Tex.; 5th, Fla., Ga., Kan., Ky., Miss., N. C.; 6th, Fla., Ga., La., Miss., S. C., Tenn., Tex.; 7th, Ala., Fla., Ill., Miss., New Mex., Tex. (lightning); 8th, Ind., N. C., Neb.; 9th, Dak., Md., Neb., Tex.; 10th, Col., Dak., Ill., Kan., Mo., Neb., Tex.; 11th, Ala., Fla., Ind. Ty., Kan., Tex.; 12th, Ala., Ga., Ill., Kan., La., Miss., Mo., Tenn., Tex.; 13th, Col., Ga., Ill., Ind. Ty., Miss., Tenn., Tex., Utah; 14th, Col., Dak., Fla., Ill., Ind., Ind. Ty., Kan., Miss., Mo., Neb., N. C., S. C., Tenn., Tex., Wis.; 15th, Cal., Dak., Fla., Ill., Ind., Iowa, Mich., Minn., Mo., Neb., N. Y., N. C., Ohio, Penn., Tenn., Tex., Wis.; 16th, Conn., Dak., Ill., Iowa, Kan., Mass., Md., Me., Mich., Minn., Mo., Neb., N. J., N. Y., Penn., Tenn., W. Va.; 17th, Conn., Dak., Ill., Iowa, Mass., Me., Neb., N. J., N. Y., Penn., Wis.; 18th, Conn., Fla., Iowa, Kan., Me., Neb., N. Y., R. I., Tex., Vt.; 19th, Dak., Fla., Ga., Kan., Minn., Mo., Neb., Tex., Va.; 20th, D. C., Dak., Ill., Ind., Iowa, Kan., Ky., Md., Mich., Miss., Minn., Mo., N. C., N. J., Ohio, Penn., Tex., Va., W. Va., Wis.; 21st, Ala., Conn., D. C., Dak., Del., Ga., Ind., Kan., Md., Mich., N. C., N. J., N. Y., Ohio, Penn., S. C., Tenn., Tex., Va., W. Va.; 22nd, Conn., Del., Ga., Kan., Mass., Md., Mo., Neb., N. C., N. H., N. J., N. Y., Ohio, Penn., Tenn., Tex., Vt., Va., W. Va.; 23rd, Col., Dak., Fla., Kan., Me., Mo., N. C., Neb., Tex.; 24th, Col., Kan., Me., N. Y., Tex., Vt., Wyo.; 25th, Col., N. J., Tex., Vt., Wyo.; 26th, Fla., Neb., N. J., Penn., Tex.; 27th, Mo., Neb., N. J., Tex.; 28th, Conn., Dak., Minn., Miss., Neb., Tex.; 29th, Dak., Ill., Minn., Neb., Tex.; 30th, Col., Conn., Dak., Ill., Ind. Ty., Iowa, Kan., Mass., Mich., Minn., Neb., N. J., N. Y., Wis.; 31st, Dak., Ill., Iowa, Kan., Minn., Mo., Neb., Wis.

Telegraphic ground currents were reported at Santa Fe on the 23rd and 24th. Strong currents also prevailed in the Middle and Eastern States during the aurora of the 28th. At Pike's Peak on the 12th and 24th.

Auroras.—The auroras of the month of May have been more numerous and brilliant, and more extensively observed than for some years past. They have been reported from three hundred and thirty stations, on seventeen dates, distributed as follows, (the numbers following the name of each State express the number of reports received.) 1st, Iowa, 1. 2nd, N. J., 10; Mich., 7; Dak., 3; Mass., 10; N. Y., 7; Penn., 7; Va., 3; W. Va., 1; Conn., 3; R. I., 1; D. C., 1; Neb., 1; Ill., 1; Iowa, 2; Md., 3; Minn., 1; N. H., 2; Ohio, 2; Vt., 1; Wis., 4. 3rd, Mass., 2; Minn., 2; Mich., 3; Nev., 1; Mich., 1; Del., 1; Iowa, 1; N. H., 1; N. J., 1; Ohio, 1; Wis., 3. 4th, N. Y., 1; Mich., 1; Mass., 1. 7th, Kan., 1. 9th, Wis., 1. 10th, Me., 2; Mich., 1; N. J., 1. 11th, Mich., 2; Me., 3; N. H., 2; N. Y., 1. 12th, N. H., 1; N. Y., 1. 13th, Me., 1; Mass., 1. 16th, N. Y., 1. 18th, N. Y., 1. 21st, N. Y., 1. 28th, N. J., 12; N. Y., 25; Mich., 9; Mass., 14; Vt., 5; Ohio, 14; Ill., 8; Va., 6; Iowa, 40, of which 28 are due to the kind co-operation of Prof. J. Hinrichs; Penn., 8; Me., 7; Ind., 7; Tenn., 2; N. C., 2; Ky., 1; Wis., 2; W. Va., 1; N. H., 2; Conn., 2; R. I., 2; Mo., 1; D. C., 1; Dak., 1; Del., 1; Kan., 1; Md., 5; Minn., 1. 29th, Ohio, 2; N. Y., 4; Va., 1; Wis., 1. 30th, Me., 4; N. Y., 1; Wis., 1. 31st, Minn., 2.

The large number of reports relative to the brilliant aurora of the 28th, render this especially interesting. The following preliminary account is all that need at present be given. It was visible from Maine on the east to Kansas and Dakota on the west, and as far south as North Carolina and Kentucky. At Washington three arches were seen in the northern heavens, the altitude of the upper one being about 23°, with streamers to 45°. At Vevay, Ind., the arches rose to altitude 45° and streamers to zenith; the magnetic compass needles were in constant agitation, oscillating through an arc of 3°. Throughout eastern Iowa the heavens appeared illumined by streamers from the north passing to the zenith. At Cambridge and Waltham, Mass., arches reached to the zenith, and fragments formed to the south. At Grand Haven, Mich., the